

For 1909.

1910

BURGH OF GOVAN.

Medical Officer's
ANNUAL REPORT

For 1909.

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MEDICAL OFFICER'S ANNUAL REPORT
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THE PROVOST, MAGISTRATES, AND TOWN COUNCIL
OF GOVAN.

GENTLEMEN,

I have the honour to submit my Annual Report upon the Health of the Burgh for 1909, prepared in accordance with the requirements and regulations of the Local Government Board.

I am, GENTLEMEN,

Your obedient Servant,

JAMES BARRAS, M.D.,
Medical Officer of Health.

PUBLIC HEALTH DEPARTMENT,
TOWN HALL,
GOVAN, 30th March, 1910.

ANNUAL REPORT

BY THE

MEDICAL OFFICER OF HEALTH

OF THE

BURGH OF GOVAN

FOR 1909.

In compliance and obedience with Byc-Laws adopted by the Burgh, and approved of by the Local Government Board for Scotland, I have to report accordingly :—

I.—VITAL STATISTICS.

Population.—The estimated population at the middle of the year amounted to 90,521, being a decrease of 1,650 as compared with that of the previous year, which was 92,171. This total is inclusive of 167 in shipping, and 670 in model lodging-houses. A decrease occurred in all the Wards except the Seventh. The population, arranged according to the Wards, is as under :—

Ward I.,	..	..	..	..	..	16,719
„ II.,	..	..	..	..	..	17,241
„ III.,	..	..	..	..	..	9,235
„ IV.,	..	..	..	..	..	10,677
„ V.,	..	..	..	..	..	17,080
„ VI.,	..	..	..	..	..	12,659
„ VII.,	..	..	..	..	..	6,910
Total,						90,521

The *natural increase* to the population, being that produced by the excess of births over deaths, was 1,147, as against 1,365 in the previous year.

Density of Population.—The area of the Burgh being 1,319 acres, shows an average density of population, based upon this acreage of 68.628 persons per acre, as compared with 69.879.

Births and Birth-Rate.—The births registered within the Burgh amounted to 2,731, equivalent to a rate of 30.169 per 1000, as against 2,952, and a rate of 32.027 in the preceding year.

The number of illegitimate births was 114, showing a rate of 4.174 per 100 births, as against 109, and a rate of 3.683.

Of the total births, 1,415 were males and 1,316 females.

Table I. shows the returns for the past ten years.

TABLE I.—BIRTHS AND BIRTH RATES, 1900-1909.

Year.	Total Births.	Males.	Females.	Birth-rate per 1000.	Illegitimate Births.	Percentage of Illegitim'y
1900	2871	1414	1457	36.55	86	2.9
1901	2750	1398	1352	33.84	110	4.0
1902	3157	1590	1567	35.51	108	3.4
1903	3160	1591	1569	34.68	104	3.2
1904	3016	1553	1463	33.17	118	3.9
1905	2986	1494	1492	32.80	119	3.9
1906	2999	1537	1462	32.87	119	3.9
1907	2969	1533	1436	31.89	99	3.3
1908	2952	1468	1484	32.02	109	3.6
1909	2731	1415	1316	30.16	114	4.1

Deaths and Death-Rate.—With the object of securing accurate mortality statistics, the Scottish Branch of the Incorporated Society of Medical Officers of Health, with the approval of the Local Government Board, recently issued forms, in which all deaths occurring in public institutions and elsewhere are allocated to the districts from which the deceased persons came, or to which they were chargeable.

In accordance with this system, the deaths which actually took place within the Burgh for the year amounted to 1,257, but of these 17 were "non-residents," and, accordingly, were allocated as above-mentioned, thus leaving a total of 1,240, to which number falls to be added 344 "transferred" deaths from public institutions and elsewhere beyond the Burgh, which thus gives a net total for the year of 1,584, being equal to a rate of 17.498 per 1,000 living of the population, as compared with 1,587, and a rate of 17.217.

Table II. shows the deaths of residents occurring in public institutions and elsewhere during the year.

TABLE II.—DEATHS IN PUBLIC INSTITUTIONS, and Elsewhere, beyond the Burgh, during the Year 1909.

MONTH.	Merryflatts	Shieldhall Fever Hospital.	Western Infirmary	Victoria Infirmary	Royal Infirmary	Glasgow	Sick Children's Hospital	Hawkhead Asylum	Maternity Hospital	Stobhill Hospital.	City debank.	Ruehill Hospital	Samartian Hospital	Lorn Poorhouse	Lanarkshire	Dunbartonshire	Renfrewshire	Renfrewshire Poorhouse	Ayr County Hospital	Kirkcintilloch	Belvidere Hospital	Edinburgh	Bathmillie Prison	Cancer Hospital	Troon	Largs	Gourock	Ardrossan	Dunfermline Hospital	Stirling Poorhouse	Kendal	Sandbank	Total.	
JANUARY	8	5	4	1	1	..	1	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23
FEBRUARY.. ..	8	..	7	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	17
MARCH	12	3	6	1	2	2	2	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	31
APRIL.. ..	18	3	7	2	2	..	1	..	..	..	..	1	..	..	1	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	37
MAY	6	3	6	6	..	2	1	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	28
JUNE	11	1	7	3	1	2	1	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	29
JULY	6	2	10	..	1	1	..	3	..	..	..	..	..	..	1	..	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	27
AUGUST	14	2	2	1	1	1	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	..	25
SEPTEMBER ..	9	5	4	..	..	2	..	1	1	..	..	1	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	1	1	1	..	28
OCTOBER	9	7	4	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	23
NOVEMBER.. ..	12	13	4	2	..	2	1	..	2	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	39
DECEMBER.. ..	15	12	5	1	..	1	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37
TOTALS	128	56	66	18	9	13	7	7	6	1	1	5	3	1	3	1	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	344

Table III. shows the places to which "transferred deaths" were allocated during the year.

TABLE III.—ALLOCATION OF DEATHS.

Glasgow,	4
Greenock,	3
Paisley,	2
Airdrie,	1
Castlecary,	1
Enniskillen,	1
Gourock,	1
Kilmarnock,	1
London,	1
Partick,	1
Whiteinch,	1
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Total,	17

Table IV. shows the monthly returns for the year.

TABLE IV.—Births and Deaths occurring in the Burgh during the Year 1909.

TABLE IV.—Births and Deaths occurring in the Burgh during the Year 1909.																																					
MONTH.	POPULATION		Acreage.	Registered Births.	MORTALITY AT SURJOINED AGES.							MORTALITY FROM SURJOINED CAUSES.																		Under or over Five Years of Age.	Death Rate per 1000.						
	Census, 1901.	Estimated to middle of 1909.			At all Ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 60.	60 and upwards.	Smallpox.	Diphtheria.	Scarlet Fever.	Typhus Fever.	Cerebro-Spinal Meningitis.	Enteric Fever.	Other or Doubtful Fevers.	Measles.	Whooping Cough.	Digestive Diseases.		Tubercular Diseases.		Septic Diseases.	Pneumonia.	Diseases of Respiratory System.	Influenza.	Cancer, Malignant Diseases.			Diseases of Nervous System.	Diseases of Circulatory System.	Violence.	All other Certified Causes.	Uncertified Causes.	
																					Diarrhoea.	Other Digestive Diseases.	Phthisis.	Other than Phthisis.													
January,	100	19	16	2	8	37	18	..	1	2	1	..	1	..	1	2	1	9	11	5	..	2	9	..	35 under 5	13.256	
February,	93	27	20	4	6	20	16	..	..	..	..	..	..	..	..	..	3	1	1	8	..	5	5	13	..	..	4	..	16	..	65 over 5	12.328		
March,	191	53	32	7	8	54	37	..	1	1	..	1	1	..	..	23	3	4	13	3	1	12	..	3	19	..	11	5	23	18	106 over 5	25.320		
April,	155	48	19	4	10	38	36	..	..	1	..	..	..	..	..	11	1	1	11	2	8	1	13	7	..	2	4	6	15	..	67 under 5	20.547		
May,	112	26	21	5	9	30	21	..	2	..	..	..	..	..	..	9	..	2	5	5	12	1	1	8	9	..	5	..	13	1	47 under 5	14.847		
June,	103	16	22	4	4	38	19	..	1	..	..	1	1	..	..	3	..	2	4	3	3	3	6	3	..	7	..	13	9	1	65 over 5	13.654		
July,	84	14	12	7	5	29	17	..	..	..	..	1	..	..	..	3	..	1	4	5	3	3	2	1	3	..	7	1	13	2	38 under 5	13.654		
August,	105	22	19	3	4	34	23	..	1	1	..	..	..	..	1	2	12	2	5	12	2	8	2	4	..	4	5	14	..	65 over 5	11.135			
September,	109	26	16	8	4	32	23	..	2	1	..	..	3	..	..	2	5	1	3	3	2	4	6	..	3	5	17	1	11	..	26 under 5	11.135		
October,	89	19	11	8	6	26	19	..	1	2	..	..	..	..	41	..	..	2	1	3	3	2	4	19	..	2	3	..	13	..	58 over 5	13.919		
November,	196	33	54	15	8	45	41	..	2	3	2	5	..	1	2	15	3	1	6	19	1	4	3	23	2	18	..	41 under 5	13.919	
December,	247	59	80	16	8	47	37	1	..	1	64	..	9	..	1	2	9	1	1	3	20	2	5	5	24	2	22	..	64 over 5	13.455
TOTAL,	1584	362	322	83	80	430	307	..	12	6	..	2	3	11	1	14	3	7	11	7	55	1	31	140	42	6	10	138	6	684 under 5	17.498	
* One Continued Fever. Two Chicken Pox.																																					

* One Continued Fever.
Two Chicken Pox.

Table V. shows the number of Deaths and Rate of Mortality for each year since 1864, including deaths in all Public Institutions since 1898, and Govan Fever Hospital since November, 1873.

TABLE V.—DEATHS AND DEATH RATES, 1864–1909.

Year.	Estimated Population at Middle of Year.	Deaths.	Death-Rate per 1000.
1864	9,058	299	33.009
1865	9,637	291	30.196
1866	9,913	245	24.715
1867	10,027	292	29.121
1868	11,148	267	23.054
1869	12,528	331	26.420
1870	14,383	367	25.516
1871	18,667	496	26.570
1872	23,313	594	25.292
1873	28,704	726	25.479
1874	33,126	1018	30.731
1875	36,152	1003	27.743
1876	39,852	925	23.211
1877	42,631	1047	24.559
1878	45,134	1035	22.931
1879	43,153	962	22.292
1880	46,383	1049	22.616
1881	49,560	1210	24.414
1882	55,417	1221	22.032
1883	58,805	1352	22.991
1884	58,569	1173	20.007
1885	55,463	1140	20.554
1886	54,687	1081	19.767
1887	54,130	1104	20.395
1888	54,657	896	16.393
1889	57,236	1004	17.541
1890	61,688	1247	20.214
1891	62,911	1234	19.615
1892	63,370	1103	17.405
1893	63,197	1381	21.852
1894	63,790	1015	15.911
1895	64,922	1192	18.360
1896	67,436	1166	17.290
1897	69,452	1322	19.033
1898	72,755	1335	18.349
1899	76,306	1398	18.320
1900	78,532	1562	19.889
1901	84,970	1581	19.494
1902	88,868	1631	18.353
1903	91,103	1730	18.989
1904	90,908	1635	17.985
1905	91,025	1607	17.654
1906	91,234	1511	16.561
1907	93,093	1660	17.831
1908	92,171	1587	17.217
1909	90,521	1584	17.498

Ward Mortality.—On referring to Table VI. it will be observed that the rate of mortality was highest in the Third Ward, and lowest in the Seventh.

TABLE VI.—WARD MORTALITY, 1909.

WARD	I.	II.	III.	IV.	V.	VI.	VII.	Total.
January, ..	23	21	9	11	14	13	9	100
February, ..	15	21	16	7	25	6	3	93
March, ..	39	49	18	15	38	21	11	191
April, ..	27	37	14	18	24	22	13	155
May, ..	18	18	13	8	26	21	8	112
June, ..	25	21	12	10	23	10	2	103
July, ..	14	21	9	8	15	13	4	84
August, ..	16	22	14	9	24	15	5	105
September, ..	21	26	13	5	24	13	7	109
October, ..	22	15	13	12	17	5	5	89
November, ..	26	45	28	11	42	34	10	196
December, ..	53	54	41	32	35	24	8	247
TOTAL, ..	299	350	200	146	307	197	85	1584
Death - Rate per 1000, ..	17.8	20.3	21.6	13.6	17.9	15.5	12.3	17.4

TABLE VII.—WARD MORTALITY, 1900-1909.

Ward.	I.	II.	III.	IV.	V.	VI.	VII.	Annual Rate.
1900	15.3	19.7	28.3	16.5	22.2	17.1	..	19.8
1901	16.7	19.7	23.1	17.0	22.5	17.9	11.5*	19.4
1902	15.7	19.1	25.3	17.5	21.0	12.9	16.1	18.3
1903	20.0	18.0	25.1	15.3	21.2	16.9	12.4	18.9
1904	18.2	20.1	22.6	14.1	18.6	14.9	14.7	17.9
1905	16.4	18.7	26.4	12.9	20.0	14.0	13.1	17.6
1906	17.9	18.5	23.2	12.7	15.9	14.2	9.8	16.5
1907	18.5	20.6	23.1	11.5	18.6	15.7	12.7	17.8
1908	15.4	17.6	25.6	13.6	19.7	15.2	11.9	17.0
1909	17.8	20.3	21.6	13.6	17.9	15.5	12.3	17.4
Average for Ten Years	17.1	19.2	24.4	14.4	19.7	15.4	12.8†	18.0

* From 15th August, 1901.

† Average for Eight Years.

Age Mortality.—Table VIII. shows the rate of mortality at the various age periods during the year.

Infantile Death Rate.—The number of deaths of infants under one year was 362, giving a rate of 132.5 per 1,000 births, as against 403 and 136.5 last year.

TABLE VIII.—INFANTILE MORTALITY, 1900-1909.

YEAR.	Deaths under One Year.	Births.	Death-rate per 1000 Births.	Percentage Mortality.
1900	461	2871	160.5	29.5
1901	398	2750	144.7	25.2
1902	423	3157	133.9	26.0
1903	505	3160	159.8	29.2
1904	428	3016	141.9	29.7
1905	400	2986	133.9	24.8
1906	367	2999	122.3	24.3
1907	383	2969	128.9	23.1
1908	403	2952	136.5	25.4
1909	362	2731	132.5	22.8

Deaths under Five Years of Age.—These numbered 684, being equal to a rate of 43.2 per cent. of the total, as against 694 and 43.7.

Deaths of Aged Persons.—There were 143 deaths of those who had attained and exceeded the age of 70 years, the average age at death being 75.2 years. Of these 105 were between 70 and 79, 37 were between 80 and 89, whilst one had reached the age of 90.

TABLE IX.—AGE MORTALITY, 1909.

AGE-PERIOD.	Number of Deaths.	Percentage of Total Deaths.
Under 1 year,	362	22.9
1 and under 5 years,	322	20.3
Under 5 years,	684	43.2
5 and under 15 years,	83	5.2
15 „ 25 „	80	5.0
25 „ 60 „	430	27.2
Over 60 years,	307	19.4
Deaths at all ages,	1584	100.0

Zymotic Death-Rate.—This is the rate of mortality from the seven principal Zymotic Diseases, viz. :—Smallpox, Diphtheria and Membranous Croup, Scarlet Fever, the Continued Fevers (Typhus, Typhoid or Enteric, and other or doubtful Fevers), Measles, Whooping Cough, and Diarrhœa.

The deaths attributed to this group amounted to 279, equal to a rate of 3.082 per 1,000, as against 248 and a rate of 2.690 in 1908. The increase at this time is mainly due to Measles, which accounted for 121 deaths as compared with 67 in the preceding year.

Of the total deaths from the Zymotic group no less than 238, being 85.3 per cent., were due to the non-notifiable diseases of the group, viz. :—Measles, Whooping Cough, and Diarrhœa.

Table X. shows the Zymotic Mortality since the introduction of the Notification Act in 1890.

TABLE X.—MORTALITY FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES, 1890-1909.

YEAR.	NOTIFIABLE.						NON-NOTIFIABLE.			Total Zymotic Deaths for Year.	Death-rate per 1000.	Percentage Mortality.	
	I. Smallpox.	II. Diphtheria and Membranous Croup.	III. Scarlet Fever.	IV. Continued Fevers.			V. Measles.	VI. Whooping Cough.	VII. Diarrhœa.				
				Typhus Fever.	Enteric Fever.	Other or Doubtful Fevers.†							
From 1st Jan. 1890	{ .. }	{ 33 }	{ 16 }	{ 2 }	{ 33 }	{ 1 }	{ 82 }				{ 257 }	{ 4.166 }	{ 20.609 }
*From 1st Mar 1891	{ .. }	{ 26 }	{ 14 }	{ 2 }	{ 29 }	{ 1 }	{ 20 }	71	19		{ 182 }	{ 3.540 }	{ 17.500 }
1891	..	40	13	6	22	..	63	64	28	236	3.751	19.124	
1892	..	26	6	..	22	..	28	30	17	129	2.050	11.695	
1893	1	42	20	1	13	1	191	70	38	377	5.965	27.300	
1894	1	33	20	..	6	..	12	46	8	126	1.975	12.413	
1895	..	26	18	5	8	..	17	38	22	134	2.064	11.241	
1896	..	15	17	3	7	1	62	63	24	192	2.847	16.466	
1897	..	18	17	1	23	..	54	79	33	225	3.239	17.019	
1898	..	18	24	19	22	..	54	67	85	289	3.972	21.648	
1899	..	16	21	..	28	1	58	19	100	243	3.184	17.382	
1900	1	14	7	3	14	..	56	80	80	255	3.247	16.325	
1901	12	21	23	2	22	1	28	63	95	267	3.291	16.888	
1902	15	16	12	1	19	6	13	37	65	184	2.070	11.281	
1903	1	35	11	3	15	4	65	114	71	319	3.501	18.439	
1904	17	61	8	..	18	..	44	46	51	245	2.695	14.984	
1905	..	38	6	..	16	1	75	96	74	306	3.361	19.041	
1906	..	44	3	..	14	3	33	46	51	194	2.126	12.839	
1907	..	27	3	..	5	1	68	62	15	181	1.944	10.904	
1908	..	26	11	1	11	1	67	59	72	248	2.690	15.626	
1909	..	14	12	..	12	3	121	69	48	279	3.082	17.619	

* Introduction of Notification Act.

† Exclusive of Cerebro-Spinal Fever.

II.—PREVALENCE OF AND MORTALITY FROM INFECTIOUS DISEASES.

(a) NOTIFIABLE INFECTIOUS DISEASES.

During the year there were received by the Medical Officer of Health 724 intimations of infectious diseases, under the Infectious Disease (Notification) Act, 1889, as against 777 in the preceding years. Of the total cases, 516 or 71.2 per cent. were removed to Hospital, as against 563 or 72.5 per cent.

The number of cases which proved fatal was 175, showing a mortality rate of 1.933 per 1,000 of the population, as against 193 and 2.093 in 1908.

The percentage of deaths to cases notified was 24.171 as against 24.839.

The percentage mortality to deaths from all causes was 11.047 as against 12.161.

The rate of sickness per 1,000 of the population was 7.998 as against 8.429.

The cost in Notification Fees was £75 7s. 6d. as against £80 13s. 6d.

Table XI. shows the monthly returns ; Table XII. the sex, age and ward mortality ; Table XIII. the statement for the year, and Table XIV. those for previous years. Table XV. shows the details of the cases dealt with by the Public Health Department during the year.

TABLE XI.—NOTIFICATIONS RECEIVED BY THE MEDICAL OFFICER OF HEALTH, UNDER THE INFECTIOUS DISEASE (NOTIFICATION) ACT, FOR THE YEAR 1909.

MONTH.				Smallpox.	Cholera.	Diphtheria.	Membranous Croup.	Erysipelas.	Scarlet Fever.	Typhus Fever.	Typhoid or Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Phthisis Pulmonalis.*	Plague.	TOTAL CASES.
January.	8	..	11	13	..	1	..	..	..	..	9	..	42
February,	9	1	7	14	..	3	..	..	..	1	10	..	45
March,	9	2	9	22	..	4	..	..	..	2	14	..	62
April,	10	..	15	11	..	1	..	..	..	..	16	..	53
May,	9	1	10	15	..	2	..	..	..	..	12	..	49
June,	5	1	6	13	..	1	..	..	..	1	11	..	38
July,	5	..	10	16	..	2	..	..	3	1	12	..	49
August,	7	1	12	43	..	6	..	..	1	..	11	..	81
September,	7	4	11	30	..	2	..	..	1	1	15	..	71
October,	7	2	16	41	..	6	..	..	2	..	3	..	77
November,	6	3	14	60	..	1	..	..	1	..	8	..	93
December,	9	5	11	22	..	1	..	..	1	2	13	..	64
TOTAL OF BURGH,	91	20	132	300	..	30	..	..	9	8	134	..	724
Cases Removed to Hospital.				79	18	70	260	..	30	..	..	9	4	46	..	516
Percentage of Cases Removed to Hospital,	86.8	90.0	53.0	86.7	..	100.0	..	..	100.0	50.0	34.3	..	71.2

* Inclusive of Registrars' Cases.

TABLE XII.—SEX, AGE, AND WARD—MORTALITY FROM NOTIFIABLE INFECTIOUS DISEASES FOR THE YEAR 1909.

DISEASE.	SEX.			AGE.										WARD.						
	M.	F.	TOTAL.	Under 1 Year.	1 and under 2 years.	2 and under 3 years.	3 and under 4 years.	4 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 25 years.	25 and under 60 years.	Over 60 years.	I.	II.	III.	IV.	V.	VI.	VII.
Smallpox, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria,	4	3	7	1	1	1	1	1	2	..	..	..	..	3	..	..	1	1	2	..
Membranous Croup,	6	1	7	1	3	1	..	..	2	..	..	..	..	2	1	..	..	2	1	1
Erysipelas,	3	1	4	..	..	..	..	..	1	..	..	2	1	2	1	..	..	..	1	..
Scarlet Fever,	5	7	12	2	2	2	..	..	5	..	1	..	..	2	3	..	..	3	2	2
Typhus Fever, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhoid or Enteric Fever,	6	6	12	..	..	..	1	..	..	..	4	7	..	2	1	1	..	7	1	..
Relapsing Fever, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever,	1	..	1*	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..
Puerperal Fever, .. .. .	..	4	4	..	..	..	..	..	..	..	..	4	..	1	..	..	..	1	..	2
Cerebro-Spinal Meningitis.	4	1	5	..	2	..	..	..	2	1	..	..	..	..	1	..	1	2	1	..
Phthisis Pulmonalis.	63	61	124	1	..	5	..	1	7	5	26	73	6	28	25	13	7	21	20	10
Plague, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL.	92	84	176	5	8	9	2	2	19	6	32	86	7	40	32	15	9	37	28	15

* This death was that of a case notified in 1908 and is not included in estimating the percentage rates for 1909.

INFECTIOUS DISEASE (NOTIFICATION) ACT, 1889

[illegible][illegible]

TABLE XV.—CASES OF INFECTIOUS DISEASE WHICH HAVE COME UNDER THE NOTICE OF THE PUBLIC HEALTH DEPARTMENT DURING THE YEAR 1909

[illegible][illegible]

Total,	..	..	..	648
Total Cases removed by this Department to Shieldhall Hospital,	..	..	..	594
Total Cases removed to Hospital,	..	..	..	648

TABLE XIII.—INFECTIOUS DISEASE (NOTIFICATION) ACT, 1889—STATEMENT FOR THE YEAR 1909.

DISEASES.	TOTAL CASES.			CASES TREATED PRIVATELY.			CASES REMOVED TO HOSPITAL		
	Cases Notified.	Deaths.	Percentage of Deaths to Notifications	Cases Notified.	Deaths.	Percentage of Deaths to Notifications.	Cases Notified.	Deaths.	Percentage of Deaths to Notifications.
Smallpox, .. .. .	..	..	..	..	..	..	..	..	..
Cholera, .. .. .	..	..	..	..	..	..	..	..	..
Diphtheria,	91	7	7.7	12	3	25.0	79	4	5.0
Membranous Croup,	20	7	35.0	2	1	50.0	18	6	33.3
Erysipelas,	132	4	3.0	62	..	..	70	4	5.7
Scarlet Fever,	300	12	4.0	40	..	..	260	12	4.6
Typhus Fever, .. .. .	..	..	..	..	..	..	..	..	..
Typhoid or Enteric Fever,	30	12	40.0	..	..	..	30	12	40.0
Relapsing Fever, .. .. .	..	..	..	..	..	..	..	..	..
Continued Fever, .. .. .	..	..	..	..	..	..	..	..	..
Puerperal Fever,	9	4	44.4	..	..	..	9	4	44.4
Cerebro-Spinal Meningitis,	8	5	62.5	4	4	100.0	4	1	25.0
*Phthisis Pulmonalis,	134	124	92.5	88	83	94.3	46	41	89.1
Plague, .. .. .	..	..	..	..	..	..	..	..	..
TOTAL,	724	175	24.171	208	91	43.750	516	84	16.279
NUMBER OF MEDICAL PRACTITIONERS' CERTIFICATES.			3.—Number of Notifications by Head of Family, Occupier, &c.,						85
			4.—Cases omitted either by Medical Practitioners, or Heads of Families, &c.,						0
579 Cases in Private Practice, at 2s. 6d.,			5.—Prosecutions in terms of Section 3 (2), consequent on such omissions,						0
60 „ Public Institutions, at 1s.,			6.—Convictions consequent on such Prosecutions,						0
639 Cases. Total Cost in Fees, ..									

* Voluntarily Notifiable and inclusive of Registrars' Cases.

NOTE.—One death from “Continued Fever,” the case being notified in 1908, is not shown in above Table, but is included in the “Tabular Statement of Sickness and Mortality” for 1909.

Smallpox and Cholera—There were no cases of either disease reported during the year

Diphtheria and Membranous Croup—These diseases, which are essentially similar, accounted for 111 cases, as against 185 in the previous year, being 15.3 per cent of the total cases notified, as against 23.8 per cent.

The number of deaths was 14, as against 26, giving a mortality-rate of 12.6 per cent., as compared with 14.0, being the lowest on record, due to the earlier recognition of the disease by Bacteriological diagnosis, and the success from the use of “Antitoxin.”

There were no deaths from this disease in the Third Ward.

Of the total, 97 cases, being 87.4 per cent., were removed to Hospital.

TABLE XVI.—MORTALITY FROM DIPHTHERIA AND MEMBRANOUS CROUP, 1890–1909.

Year.	Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.
1890	67	26	38.8
1891	93	40	43.0
1892	67	26	38.8
1893	103	42	40.7
1894	91	33	36.2
1895	85	26	30.5
1896	46	15	32.6
1897	52	18	34.6
1898	63	18	28.5
1899	62	16	25.8
1900	67	14	20.9
1901	110	21	19.1
1902	64	16	25.0
1903	187	35	18.7
1904	295	61	20.7
1905	245	38	15.5
1906	249	44	17.6
1907	166	27	16.3
1908	185	26	14.0
1909	111	14	12.6

Erysipelas.—The number of cases reported was 132, with 4 deaths, as compared with 100 cases and 7 deaths in 1908, being 18.2 per cent. of the cases notified, as against 12.8 per cent., and a case mortality of 3.0 per cent. as compared with 7.0 per cent.

70 cases, being 53.0 per cent., were removed to Hospital.

There were no deaths in the Third, Fourth, Fifth, or Seventh Wards.

TABLE XVII.—MORTALITY FROM ERYSIPELAS, 1890–1909.

Year.	Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.
1890	87	3	3.4
1891	149	4	2.6
1892	143	5	3.4
1893	138	8	5.7
1894	153	10	6.5
1895	99	2	2.0
1896	101	2	1.9
1897	85	2	2.3
1898	114	5	4.3
1899	101	...	...
1900	97	6	6.1
1901	127	6	4.7
1902	172	9	5.2
1903	162	7	4.3
1904	124	8	6.4
1905	118	9	7.6
1906	116	8	6.9
1907	107	6	5.6
1908	100	7	7.0
1909	132	4	3.0

Scarlet Fever.—The number of cases reported was 300, as against 252, with 12 deaths as against 11, and a case-mortality of 4.0 per cent. as against 4.3 per cent.

The cases notified were 41.4 per cent. of the total.

No deaths occurred in the Third or Fourth Wards.

The largest number of cases occurred in November, viz., 60, the fewest, 11, in April. 260 cases, being 86.7 per cent., were removed to Hospital.

TABLE XVIII.—MORTALITY FROM SCARLET FEVER, 1890–1909.

Year.	Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.
1890	268	14	5.2
1891	204	13	6.3
1892	238	6	2.0
1893	333	20	6.0
1894	410	20	4.8
1895	342	18	5.2
1896	327	17	5.2
1897	318	17	5.3
1898	494	24	4.8
1899	380	21	5.5
1900	225	7	3.1
1901	343	23	6.7
1902	281	12	4.2
1903	281	11	5.2
1904	194	8	4.1
1905	111	6	5.4
1906	157	3	1.9
1907	197	3	1.5
1908	252	11	4.3
1909	300	12	4.0

Typhus Fever.—No case was notified during the year.

TABLE XIX.—MORTALITY FROM TYPHUS FEVER, 1890–1909.

Year.	Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified
1890	7	2	28.5
1891	37	6	16.2
1892	3	...	...
1893	14	1	7.1
1894	2	...	...
1895	14	5	35.7
1896	8	3	37.5
1897	6	1	16.6
1898	68	19	27.9
1899	...	...	...
1900	12	3	25.0
1901	9	2	22.2
1902	4	1	25.0
1903	5	3	60.0
1904	...	...	...
1905	...	...	...
1906	3	...	...
1907	...	...	...
1908	1	1	100.0
* 1909	...	...	...

Enteric Fever.—During the year 30 cases with 12 deaths were recorded, showing a case-mortality of 40.0 per cent., as against 66 cases, 11 deaths, and a death-rate of 16.6 per cent. in 1908.

All the cases were removed to Hospital.

There were no deaths in either the Fourth or Seventh Wards.

Of the deaths, 6 were males and 6 females.

The percentage of deaths to cases notified was the highest on record since the introduction of the Notification Act twenty years ago.

TABLE XX.—MORTALITY FROM ENTERIC FEVER, 1890–1909.

Year.	Cases Notified	Deaths.	Percentage of Deaths to Cases Notified.
1890	277	29	10.4
1891	150	22	14.6
1892	171	22	12.8
1893	52	13	25.0
1894	43	6	13.9
1895	37	8	21.6
1896	59	7	11.8
1897	91	23	25.2
1898	127	22	17.3
1899	93	28	30.1
1900	63	14	22.2
1901	84	22	26.2
1902	55	19	34.5
1903	78	15	19.2
1904	99	18	18.2
1905	67	16	23.8
1906	48	14	29.1
1907	33	5	15.2
1908	66	11	16.6
1909	30	12	40.0

Puerperal Fever.—During the year 9 cases were reported, all of which were removed to Hospital.

There were 4 deaths, giving a percentage mortality-rate of 44.4, as against 33.3 in the preceding year.

TABLE XXI.—MORTALITY FROM PUERPERAL FEVER, 1890–1909.

Year	Cases Notified.	Deaths	Percentage of Deaths to Cases notified.
1890	7	2	28·5
1891	9	4	44·4
1892	7	2	28·5
1893	8	4	50·0
1894	3	2	66·6
1895	5	3	60·0
1896	7	3	42·8
1897	4	3	75·0
1898	6	3	50·0
1899	5	3	60·0
1900	6	1	16·6
1901	10	5	50·0
1902	10	3	30·0
1903	17	7	41·1
1904	14	9	64·3
1905	10	6	60·0
1906	12	5	41·6
1907	14	7	50·0
1908	6	2	33·3
1909	9	4	44·4

Continued Fever.—No cases were notified during the year, but one death took place of one of the cases reported in 1908.

TABLE XXII.—MORTALITY FROM CONTINUED FEVER, 1890–1909.

Year	Cases Notified	Deaths	Percentage of Deaths to Cases notified.
1890	24	1	4·1
1891	7	...	...
1892	4	...	...
1893	2	..	...
1894	1	...	...
1895	1	...	..
1896	11	...	9·0
1897	1	...	...
1898	...	...	...
1899	1	1	100·0
1900	5	...	...
1901	8	1	12·5
1902	13	6	46·1
1903	6	1	16·6
1904	...	...	...
1905	4	1	25·0
1906	2	1	50·0
1907	2	1	50·0
1908	7	1	14·3
1909	...	1	...

There have been no cases of **Relapsing Fever** since 1893, nor of **Plague** or **Suspected Plague** since 1901.

Cerebro-Spinal Meningitis.—With the approval of the Local Government Board, Cerebro-Spinal Meningitis was added to the list of diseases notifiable under the Infectious Disease (Notification) Act, 1889, on the 15th March, 1907.

During the year there were 8 cases, with 5 deaths, giving a death-rate of 62·5 per cent. 4 cases were removed to Hospital.

There were no deaths in the First, Third or Seventh Wards.

TABLE XXIII.—MORTALITY FROM CEREBRO-SPINAL MENINGITIS.

Year	Cases	Deaths	Percentage of Deaths to Cases notified
1907	112	97	86·6
1908	16	13	81·2
1909	8	5	62·5

(2) NON-NOTIFIABLE INFECTIOUS DISEASES.

(a) Measles.

(b) Whooping Cough.

(c) Diarrhoea.

(d) Chickenpox.

The deaths from these diseases amounted to 240, showing a mortality-rate of 2·651 per 1,000, and 15·151 per cent. of the total deaths.

(a) **Measles.**—During the year 121 deaths were caused by this disease as against 67, of which 92 were under three years of age.

All the deaths, except 2, occurred in November and December, the numbers being 46 and 73 respectively.

Out of 278 known cases, 94, being 33·8 per cent., were removed to Hospital.

TABLE XXIV.—MORTALITY FROM MEASLES, 1890–1909.

Year.	Deaths.	Death-Rate per 1000.	Percentage Mortality.
1890	82	1·3	6·5
1891	63	1·0	5·1
1892	28	·4	2·5
1893	191	3·0	13·7
1894	12	·1	1·1
1895	17	2	1·4
1896	62	·9	5·3
1897	54	·7	4·0
1898	54	7	4·0
1899	58	·7	4·1
1900	56	·7	3·5
1901	23	·3	1·8
1902	12	·1	·8
1903	65	·7	3·7
1904	44	·5	2·7
1905	75	·8	4·6
1906	33	·3	2·2
1907	68	·7	4·1
1908	67	·7	4·2
1909	121	1·3	7·6

(b) **Whooping Cough.**—During the year 69 deaths were ascribed to Whooping Cough, as against 59, all but three of which were under five years of age.

Of the total, 35 took place during the months of April and May.

Of 102 known cases, 34, being 33·3 per cent. were removed to Hospital.

TABLE XXV.—MORTALITY FROM WHOOPING COUGH, 1890–1909.

Year.	Total Deaths.	Death-Rate per 1000.	Percentage Mortality of Total Deaths.
1890	71	1·1	5·7
1891	64	1·0	5·2
1892	30	0·4	2·7
1893	70	1·1	5·0
1894	46	0·7	4·5
1895	38	0·6	3·2
1896	63	0·9	5·4
1897	79	1·1	5·9
1898	67	0·9	5·0
1899	19	0·2	1·3
1900	80	1·0	5·1
1901	63	0·7	4·0
1902	37	0·4	2·3
1903	114	1·2	6·6
1904	46	0·5	2·7
1905	96	1·0	5·9
1906	46	·5	3·0
1907	62	·6	3·7
1908	59	·6	3·7
1909	69	·7	4·3

(c) **Diarrhœa.**—The various diseases included under this group, as detailed in last year's Report, accounted for 48 deaths, as compared with 72. Of the total deaths 29 took place during the autumn, and 32 were under one year.

16 deaths occurred in the Second Ward, and 11 in the Fifth.

TABLE XXVI.—MORTALITY FROM DIARRHŒA, 1890–1909.

Year.	Total Deaths.	Death-rate per 1000.	Percentage Mortality of Total Deaths.
1890	19	0·3	1·5
1891	28	0·4	2·2
1892	17	0·3	1·5
1893	38	0·6	2·8
1894	8	0·1	0·8
1895	22	0·3	1·8
1896	24	0·3	2·0
1897	33	0·5	2·5
1898	85	1·1	6·3
1899	100	1·3	7·1
1900	80	1·0	5·1
1901	95	1·1	6·0
1902	65	0·7	4·1
1903	71	0·8	4·1
1904	51	0·5	3·1
1905	74	0·8	4·6
1906	51	0·5	3·3
1907	15	·1	·9
1908	72	·7	4·5
1909	48	·5	3·0

(d) **Chicken-Pox.**—There were 2 deaths from Chicken-Pox during the year.

Table XXVII. shows the sex, age, and ward-mortality from the non-notifiable infectious diseases, and Table XXVIII. the return of deaths from *all* infectious diseases, notifiable and non-notifiable.

TABLE XXVII.—SEX, AGE, and WARD-MORTALITY FROM NON-NOTIFIABLE INFECTIOUS DISEASES FOR THE YEAR 1909.

DISEASE.		SEX			AGE										WARD.						
		M.	F.	TOTAL.	Under 1 year.	1 and under 2 years.	2 and under 3 years.	3 and under 4 years.	4 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 25 years.	25 and under 60 years.	Over 60 years.	I.	II.	III.	IV.	V.	VI.	VII.
Whooping Cough, ..		32	37	69	28	27	7	3	1	3	...	...	..	...	15	16	9	3	18	8	..
Measles,		60	61	121	21	51	20	12	3	14	...	...	...	..	29	36	20	7	14	13	2
Diarrhœa,		30	18	48	32	7	...	1	2	2	...	1	3	...	4	16	7	4	11	3	3
Chicken Pox, .. ..		...	2	2	...	1	1	...	..	...	...	...	...	...	...	1	...	1	...	...	...
Total,		122	118	240	81	86	28	16	6	19	...	1	3	...	48	69	36	15	43	24	5

TABLE XXVIII.—RETURN OF DEATHS from Infectious Diseases, including Deaths in Hospital, for the Year 1909. Estimated Population, 90,521.

	NOTIFIABLE DISEASES.															Non-Notifiable Diseases.				Total Deaths from Non-Notifiable Infectious Diseases.	Total Deaths from Infectious Diseases.
	Smallpox.	Cholera.	Diphtheria.	Membranous Croup.	Erysipelas.	Scarlet Fever.	Typhus Fever.	Typhoid or Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Plague.	Cerebro-Spinal Meningitis.	Phtthis Pulmonalis.		Total Deaths from Notifiable Infectious Diseases.	Whooping Cough.	Diarrhoea and Dysentery.	Chicken Pox.			Measles.
JANUARY, -	1	...	1	...	...	2	...	1	...	...	...	10	15	...	1	...	1	2	17
FEBRUARY, -	8	8	6	4	...	...	10	18
MARCH, -	1	...	...	1	...	2	...	...	...	...	2	14	20	8	5	...	...	13	33
APRIL, -	1	1	...	...	...	...	...	...	...	12	14	24	4	1	...	29	43
MAY, -	2	...	...	...	...	...	...	...	...	...	...	12	14	11	...	...	...	11	25
JUNE, -	1	...	...	...	1	...	...	...	...	1	13	16	9	...	...	...	9	25
JULY, -	2	...	1	5	8	4	3	...	...	7	15
AUGUST, -	1	...	...	...	...	...	...	1	...	...	13	15	3	9	...	...	12	27
SEPTEMBER, -	1	...	2	...	3	...	...	1	...	...	8	15	2	13	...	1	16	31
OCTOBER, -	1	1	2	1	...	1	...	...	...	...	...	4	10	2	7	...	...	9	19
NOVEMBER, -	2	1	...	5	...	2	...	...	...	...	...	15	25	...	1	1	46	48	73
DECEMBER, -	2	...	2	...	1	...	...	...	...	1	10	16	...	1	..	73	74	90
Total Deaths from Infectious Diseases, -	7	7	4	12	...	12	...	1	4	...	5	124	176	69	48	2	121	240	416

III.—MORTALITY FROM OTHER CAUSES.

Tuberculosis.—The various forms of tubercular disease accounted for 199 deaths, of which 124 were due to Pulmonary Phthisis (consumption), and 75 to other varieties of the disease, giving a rate of 12.5 per cent of the total mortality, as compared with 229 deaths and a rate of 14.4 in 1908, thus showing 30 deaths less at this time.

During the year 134 cases of Phthisis Pulmonalis came to the knowledge of the Department, of which 54, being 40.3 per cent., were notified by medical practitioners, 28 being of cases in private practice and 26 those in public institutions, etc., the remainder being through the registrars of the districts in which deaths took place

There were 124 deaths, 63 being males and 61 females.

46 cases, being 34.3 per cent., were removed to Hospital.

73 deaths, being 59.0 per cent., took place between the ages of 25 and 60 years, and 26, being 19.4 per cent., between 15 and 25 years.

The fewest deaths occurred in the Fourth Ward, viz., 7, and the most, 25, in the Second.

TABLE XXIX.—SHOWING RATE OF MORTALITY FROM PHTHISIS PULMONALIS, IN THE VARIOUS WARDS OF THE BURGH, PER 10,000 OF THE POPULATION.

Ward	No. of Deaths.	Death Rate per 10 000
I.	28	16.1
II.	25	14.5
III.	13	14.1
IV.	7	6.6
V.	21	12.3
VI.	20	15.8
VII.	10	14.4
Total,	124	13.697

As showing the local incidence of the reported cases of Phthisis Pulmonalis, Table XXX. shows the comparative number of cases per 10,000 in each of the Wards.

TABLE XXX.—WARD-INCIDENCE OF REPORTED CASES OF PHTHISIS PULMONALIS, PER 10,000 OF THE POPULATION.

Ward.	No. of Cases Reported	Incidence Rate per 10,000
I.	26	15.5
II.	33	19.1
III.	15	16.2
IV.	8	7.4
V.	24	14.0
VI.	18	14.2
VII.	10	14.4
Total,	134	14.803

TABLE XXXI.—SHOWING ANNUAL NUMBER OF DEATHS, FROM TUBERCULAR DISEASES,
PERCENTAGE TO TOTAL DEATHS, AND DEATH-RATE PER 1,000.*

Year.	Number of Deaths.	Percentage Mortality.	Death-Rate per 1000.
1864	65	21.7	7.1
1865	71	24.4	7.4
1866	58	23.6	5.8
1867	67	23.3	6.7
1868	68	25.4	6.1
1869	72	21.7	5.7
1870	72	19.6	5.0
1871	119	23.9	6.3
1872	84	14.1	3.6
1873	103	14.3	3.5
1874	114	11.1	3.4
1875	153	15.1	4.2
1876	158	16.0	3.9
1877	175	16.6	4.1
1878	179	17.2	3.9
1879	195	22.7	4.5
1880	202	19.3	4.3
1881	195	16.2	3.9
1882	202	16.7	3.6
1883	219	15.5	3.7
1884	228	19.6	3.9
1885	215	19.0	3.8
1886	190	17.6	3.4
1887	199	18.1	3.6
1888	148	16.7	2.7
1889	141	14.2	2.4
1890	137	11.2	2.2
1891	131	10.8	2.0
1892	129	11.9	2.0
1893	142	10.5	2.2
1894	162	16.3	2.5
1895	162	14.0	2.4
1896	144	12.7	2.1
1897	156	12.2	2.2
1898	143	10.7	1.9
1899	198	14.1	2.6
1900	181	11.6	2.3
1901	210	13.3	2.4
1902	206	12.6	2.3
1903	214	12.4	2.3
1904	206	12.6	2.2
1905	193	12.1	2.1
1906	199	13.1	2.1
1907	216	13.0	2.3
1908	229	14.4	2.4
1909	199	12.5	2.2
Total,	7249	14.6	2.9

* Including Deaths in Public Institutions since 1898.

Other Digestive Diseases (exclusive of Diarrhoea), accounted for 42 deaths, being 2.6 per cent. of the total.

Septic Diseases, which include the various forms of blood-poisoning, caused 14 deaths, being .9 per cent.

Pneumonia accounted for 98 deaths, as against 82, being 6.2 per cent.

Respiratory Diseases (exclusive of Pneumonia) produced 243 deaths, as against 240, being 15.3 per cent.

Influenza accounted for 4 deaths.

Cancer produced 58 deaths as against 59.

Nervous Diseases caused 84 deaths as against 112, being 5.3 per cent.

Circulatory Diseases, comprising affections of the heart and blood-vessels, produced 218 deaths, as against 193, being 13.7 per cent.

Violence, which includes suicide, poisoning, and all other forms of unnatural or accidental death, caused 31 as compared with 51 deaths, being 1.9 per cent.

All other Certified Causes, which comprise those not included under any of the foregoing divisions, accounted for 299 deaths, being 18.8 per cent. of the total.

Uncertified Causes, which include those deaths which from want of information cannot be assigned to one or other of the above causes, accounted for the remaining 10 deaths, 6 of which occurred amongst children under five years of age.

GENERAL.

The only feature of special importance during the year was the violent outbreak of measles, which, in general with other towns in the West of Scotland, attained its maximum during the latter part of the year, no less than 216 cases being notified (voluntarily) in November and December out of a total of 278. Of these 121 proved fatal, of which 92 were under three years of age.

Certificates were granted dealing with unsound food, defective ashpipts, and the interment of dead bodies, etc.

There are no slaughter-houses nor any offensive trade or business within the Burgh.

The Hospital at Shieldhall, the Reception House, and the means of disinfection, etc., all as detailed in former reports, are sufficiently adequate for the present requirements of the Burgh.

As regards the prevention of the outbreak and spread of infectious disease, removal to Hospital is in all cases resorted to where there is not the proper lodging or accommodation at home, and in cases of children attending school the necessary intimations as to the existence of disease is at once conveyed to the School Board.

In connection with the Fresh-Air Fortnight Scheme for poor children, 542 visits were made by the epidemic inspector.

537 sets of clothing, bedding, etc., were disinfected, and 944 apartments were fumigated.

1,483 visits were made in respect of infectious diseases, and 1,488 intimations of such were communicated to the School Board.

During the year 985 families, comprising 4,682 contacts, were under observation.

648 cases of infectious disease were removed to Hospital, of which 594 were treated in Shieldhall, the remainder, chiefly cases of Phthisis, having been transferred to the Sanatorium at Merryflatts.

1,400 notices, under Sections 50 and 53 "Public Health (Scotland) Act, 1897," were served upon householders.

A leaflet containing simple instructions as to the measures which should be carried out in all cases of Phthisis, which have been notified, is left by the inspector when the houses are visited.

During the year 500 conscientious objections to vaccination were received, being an increase of 111 over those of the previous year.

The numbers as to Wards were as follows :—

Ward I.,	..	..	..	..	..	..	90
„ II.,	..	..	..	..	..	..	98
„ III.,	..	..	..	..	..	..	56
„ IV.,	..	..	..	..	..	..	38
„ V.,	..	..	..	..	..	..	90
„ VI.,	..	..	..	..	..	..	70
„ VII.,	..	..	..	..	..	..	58
Total,	..	..	..	..	..	..	500

Since the 16th August, 1907, the voluntary Notification of Phthisis has been in force within the Burgh, and every precaution in preventing its spreading is carried out in respect to those cases treated at home.

In the case of those who are unable to make a prolonged stay at some of the many Sanatoria now erected for the treatment of such cases, it will devolve upon the Local Authority to make provision for these either at Shieldhall or elsewhere, as is done in the case of other infectious diseases.

The Notification of Births Act, 1907, has been in operation since the 1st May, 1908, and the results have so far been satisfactory and encouraging. The advice and instructions of the Health Visitor (whose report is herewith appended—see page 24) have been favourably received and acted upon in the majority of cases. Special attention is paid to the cleanliness of the children, and their hygienic surroundings, especially as to the advantages of ventilation and fresh-air.

The infantile death-rate for the year was 132.5 per 1000 births, as compared with 136.5 in 1908, and an average of 141.4 for the preceding 10 years.

The Regulations as to the inspection of Foreign Meat are under the jurisdiction of the Port Local Authority of Glasgow who deal with such, whilst the examination of meat in shops (there being no slaughter-houses within the Burgh) are supervised by the Sanitary Inspector, the Veterinary Surgeon, and the Medical Officer of Health.

At a meeting of the Public Health Committee, held on 31st March, the Convener reported that, along with the Sub-Convener, the Medical Officer, and the Clerk he had had a meeting with Dr. Smith, Mr Robert Stewart and Mr Malcolm M'Leod, representing the Govan School Board, regarding the proposa that the Medical Officer should certify lists of children as being excluded from attending school with his approval. After an expression of views it had been suggested as a satisfactory arrangement that the Medical Officer should sign the lists referred to, if previously informed, by certificates from the Medical Officers attached to each school, of the existence of the cases of disease set forth in the list. The Committee approved of this arrangement.

At the same time the Clerk submitted letter from the Secretary of the Pharmaceutical Society drawing attention to the provisions of the Poisons and Pharmacy Act, 1908. It was agreed to allow the letter to lie on the table pending the issue of the regulations to be made by Order in Council in terms of Section 2 (3) of the Act.

During the year the following, in addition to other matters, received the attention of the Department :—

- (1) A communication from the Local Government Board transmitting copy of Report by the Delegates of His Majesty's Government to the International Congress on Tuberculosis, held at Washington in September last.
- (2) To a Report presented to the English Local Government Board by Dr. Eastwood, a pathologist in the employment of the Royal Commission on Tuberculosis, on American methods for the control and improvement of the Milk Supply.
- (3) The prevalence of Cholera in Northern Russia and at certain Baltic Ports.

HEALTH VISITOR'S REPORT.

Throughout the year 1909, 2196 visits have been made to houses in the Burgh where the birth of an infant has taken place, and I have found it necessary to re-visit in 403 cases, 76 of these being weekly for the first three months, making 2,599 visits in all.

Results of these return visits are very encouraging, the advice in most cases has been followed, and improvement noticed.

Of 2,211 children born alive, only 267 were hand-fed, leaving 1,944 being brought up in the natural way. Of these hand-fed infants—

192 were on cows milk ;

53 were on Nestles Milk, and

22 on Patent Foods, such as Bengers', Mellins' and Allenbury's, while one infant had the juice of fish bones added to its bottle on account of the Phosphorus contained therein.

58 of the children born were illegitimate, while 15 cases were twins.

The boat-shaped bottle is becoming more generally adopted, but I found it necessary to discard the use of Baby Comforters which are so insanitary.

Many of the houses are very dirty, but infants suffer more from air starvation than anything else, so I have tried to show the benefit of open windows to the mothers, for their own good as well.

Generally the health of the mothers has been well maintained, but if the infants of Govan are to thrive properly we should like to see the mothers also better fed.

A. F. CAMERON,
Health Visitor.

I have again to point out, that whilst 2,731 births were "registered" during the year, only 2,435 were "notified," thus showing a deficit of 296, but which figure in all probability is exceeded, as by Act of Parliament there is a limit of 21 days in which to "register" a birth, but under the "Notification" Act this must be done within 36 hours.

Since the introduction of the "Notification of Births Act" in May, 1908, the total discrepancy between those registered and notified amounts to 588. From the above it is perfectly obvious, that either from obstinacy or ignorance, or both, on the part of those responsible in notifying, no approximately correct return can be looked for, until those who have purposely evaded the Act, have either been prosecuted, or otherwise dealt with by the Town Council.

JAMES BARRAS, M.D.,
Medical Officer of Health.

TABLE XV.—CASES OF INFECTIOUS DISEASE WHICH HAVE COME UNDER THE NOTICE OF THE PUBLIC HEALTH DEPARTMENT DURING THE YEAR 1895.

INFECTIOUS DISEASES.	Cases		Cases from Houses of Apartments.								Cases from Model Lodging Houses.	Cases from Workhouses.	Cases in				Cases from Wards.							Sent to Reception House.		Under Observation at Home.		Deaths in			Total Deaths.	Death Rate per 1000.	Total Burials.	Birth Rate per 1000.	WARD MORTALITY FROM INFECTIOUS DISEASES.							Totals.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	Home.	Hospital.	1	2	3	4	5	S.C.	Total Cases.	Private Practice.			Public Institutions.	Hospitals and others.	I.	II.	III.	IV.	V.	VI.	VII.	Families.	Canteens.	Families.	Canteens.	Surgery.	Public Institutions.	I.	II.	III.					IV.	V.	VI.	VII.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Cerebro-Spinal Meningitis.	4	4	2	4	2	...	...	...	...	8	8	...	...	...	2	...	1	3	2	...	...	...	8	37	1240	314	1584	17.408	2731	30.169	...	1	...	1	2	1	...	5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Smallpox.	134	28	26	50	36	33	15	8	24	13	10	134	590

NOTE.—43 Cases of Phthisis were removed to Meryllate Hospital, 1 to the Western Infirmary, 1 to the Victoria Infirmary, and 1 to Hawkehead Asylum.
 1 " Scarlet Fever was removed to, and died in, the Combination Parish Hospital, Dunfermline.
 1 " Enteric Fever was removed to the Maternity Hospital and 1 to Ruchill Hospital. (Both cases died).
 1 " Puerperal Fever was removed to, and died in, Belvedere Hospital, Glasgow.
 1 " Measles was removed from Meryllate Hospital to Shieldhill Hospital, and died in Shieldhill Hospital.
 2 " Whooping Cough were removed to Ruchill Hospital and 1 to Belvedere Hospital, Glasgow. (The 3 cases died).

Total. 54
 Total Cases removed by this Department to Shieldhill Hospital. 594
 Total Cases removed to Hospital. 648

TABLE II.—DENSITY OF POPULATION, BIRTH RATE, INFANTILE AND OTHER DEATH RATES
FOR 1909.

Persons to the Acre.	68.6285	Birth Rate per 1000 of estimated population.	30.1698	Deaths under 1 Year per 1000 Births.	132.5522
DEATH RATES, PER THOUSAND, FROM					
All Causes.	17.4987	Smallpox.	..	Diphtheria.	.1546
		Scarlet Fever.	.1326	Typhus Fever.	.
		Cerebro-Spinal Meningitis.	.0552	Enteric and other or Doubtful Fevers.	.1657
		Measles.	1.3367	Whooping Cough.	.7622
		Diarrhoea.	.5302	Other Digestive Diseases.	.4639
		Phtisis.	1.3698	Other than Phtisis	.8285
		Tubercular Diseases.		Septic Diseases.	.1546
		Pneumonia.	1.0826	Diseases of Respiratory System.	2.6844
		Influenza.	.0442	Cancer, Malignant Diseases.	.6407
		Diseases of Nervous System.	.9279	Diseases of Circulatory System.	2.4082

TABLE III.—CASES OF INFECTIOUS DISEASE COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER DURING THE YEAR 1909.

MONTH.	Smallpox.	Cholera.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Typhus Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Measles.	Whooping Cough.	Cerebro-Spinal Meningitis.	Phthisis.	Plague.	Chicken Pox.	Total Cases.
JANUARY, - - -	8	11	13	..	1	..	..	..	3	4	..	9	..	..	49
FEBRUARY, - - -	10	7	14	..	3	..	..	..	1	13	1	10	..	1	60
MARCH, - - -	11	9	22	..	4	..	..	..	2	15	2	14	..	..	79
APRIL, - - -	10	15	11	..	1	..	..	..	6	29	..	16	..	1	89
MAY, - - -	10	10	15	..	2	..	..	..	4	16	..	12	..	..	69
JUNE, - - -	6	6	13	..	1	..	..	..	4	10	1	11	..	..	52
JULY, - - -	5	10	16	..	2	..	..	3	1	6	1	12	..	1	57
AUGUST, - - -	8	12	43	..	6	..	..	1	2	3	..	11	..	1	87
SEPTEMBER, - - -	11	11	30	..	2	..	..	1	4	4	1	15	..	1	80
OCTOBER, - - -	9	16	41	..	6	..	..	2	35	2	..	3	..	..	114
NOVEMBER, - - -	9	14	60	..	1	..	..	1	93	..	..	8	..	..	186
DECEMBER, - - -	14	11	22	..	1	..	..	1	123	..	2	13	..	..	187
Total of Burgh,	111	132	309	..	30	..	..	9	278	102	8	134	..	5	1109
Cases Removed to Hospital,	97	70	260	..	30	..	..	9	94	34	4	46	..	4	648
Percentage of Cases Removed to Hospital, - - -	87.4	53.0	86.7	..	100.0	..	..	100.0	33.8	33.3	50.0	34.3	..	80.0	58.4

Annual Abstract for 1909 and Relative Returns for 1908.

	1909.	1908.
Population at middle of year,	90,521	92,171
Acreage of Burgh,	1,319	1,319
Density of population per acre,	68.628	69.879
Total Births,	2,731	2,952
Birth-rate per 1000,	30.169	32.027
Percentage of Illegitimate Births,	4.174	3.683
Deaths under 1 year,	362	403
Infantile Death-rate (<i>i.e.</i> , Deaths under 1 year per 1000 Births),	132.5	136.5
Total Deaths,	1,584	1,587
Death-rate per 1000,	17.498	17.217
<i>Notifiable Infectious Diseases—</i>		
{ Number of Deaths,	175	193
{ Death-rate per 1000,	1.933	2.093
{ Percentage Mortality,	11.047	12.161
<i>Seven Principal Zymotic Diseases—</i>		
{ Number of Deaths,	279	248
{ Death-rate per 1000,	3.082	2.690
{ Percentage Mortality,	17.619	15.626
<i>Non-Notifiable Infectious Diseases—</i>		
{ Number of Deaths,	240	198
{ Death-rate per 1000,	2.651	2.148
{ Percentage Mortality,	15.151	12.413
Notifications received during the year,	724	777
Percentage of Deaths to Cases Notified,	24.171	24.839
Rate of Sickness per 1000 from Notifiable Infectious Diseases,	7.998	8.429

ADMINISTRATION OF THE "FACTORY AND WORKSHOP ACT, 1901," WITHIN
THE BURGH DURING THE YEAR 1909.

1. Sanitary Condition of Workshops and Workplaces.—The defects found within the premises in question were nuisances all remediable under the Public Health Acts, consisting of :—

(1) Want of Cleanliness in	..	..	..	..	..	26 cases.
(2) Want of Ventilation in	..	..	..	..	..	2 „
(3) Want of Drainage of Floors in	..	..	..	..	..	2 „
(4) And other nuisances in	..	..	..	..	..	4 „
(5) Sanitary Accommodation	{ Insufficient in				3 „	
	{ Unsuitable or Defective in						21 „	
	{ Not Separate for Sexes in						2 „	
						—		
Total,						60 „

At the end of the year 46 of the above defects had been remedied.

There were no offences under the Factory and Workshop Act.

Including inspections by the Sanitary Inspector the total was 950, consisting of :—

(1) Workshops (including Workshop Laundries and Retail Bake-houses),	..	..	..	..	..	..	401
(2) Factories (including Factory Laundries),	..	..	..	..	..	..	243
(3) Workplaces,	..	..	..	..	..	..	200
(4) Outworkers' Premises,	..	..	..	..	..	..	106
Total Inspections,							950

2. Sanitary Regulations for Bakehouses.—Bakehouses which are factories are under the supervision of the Factory Inspector ; but those in which no mechanical power is used are classified as workshops.

In the case of retail bakehouses, the duty of enforcing the provisions of the Act devolves upon the Local Authority ; and the Medical Officer of Health has all the powers of entry, inspection, taking legal proceedings and otherwise of a Factory Inspector.

There are no underground bakehouses within the Burgh.

There are 7 bakehouses under the category of "Factories," whilst the "retail bake-houses" number 18, in which 47 persons are employed, of whom 5 are females and 3 are "young persons" under the Act.

Inspection of the retail bakehouses revealed the want of cleanliness in 2 cases, both of which were found, upon a subsequent visit, to have been remedied.

3. Home Work.—The returns for the year under this Section are given in Table VI.

4. The Keeping of a List of Outworkers.—Six lists were received from the occupiers of factories and workshops, showing the names and addresses of all persons employed by them, the number of such outworkers being 52, four of whom were females.

The number of addresses of outworkers forwarded to other Authorities was 8, whilst those received from other Councils was 73.

5. The Keeping of a Register of Workshops.—The Register at the end of the year showed that there were (excluding outworkers' premises) :—

(1) Workshops (including 18 Retail Bakehouses),	..	..	..	..	..	270
(2) Workplaces,	..	..	..	..	..	150
(3) Factories,	..	..	..	..	..	126
(4) Domestic Workshops,	..	..	..	..	..	12
Total,						558

To the above 844 visits of inspection were made, whilst, including those of outworkers' premises, viz., 106, the total inspections were 950.

Below will be found a detailed list of the above, together with the tabular statement as required by the Secretary of State.

As in former years I have again to thank the Chief Sanitary Inspector, Mr Dunne, for his courtesy in affording me at all times the necessary information in enabling me to frame this report, and to acknowledge the manner in which his many duties under the Act have been so satisfactorily carried out.

FACTORY AND WORKSHOP ACT, 1901.

WORKSHOPS, &c., ON REGISTER AT END OF YEAR 1909.

TABLE I.—WORKSHOPS.

TRADE OR BUSINESS.	No. of Workshops	NO. OF WORKERS EMPLOYED.		TOTAL.
		Male.	Female	
Bakers (Retail),	18	42	5	47
Blacksmiths,	7	21	..	21
Blouse-makers,	1	..	2	2
Boatbuilders,	1	3	..	3
Brushmakers,	1	35	14	49
Cabinetmakers,	4	5	1	6
Cartwrights and Joiners, ..	20	58	1	59
Clyde Trust Workshops, ..	1	106	..	106
Coopers,	2	23	1	24
Coppersmiths,	1	2	..	2
Corset-makers,	1	..	1	1
Cycle Repairers,	6	8	1	9
Dressmakers,	32	..	96	96
Engine, &c., Repairers, ..	1	5	..	5
Fish Curers,	2	7	3	10
Fire-light Manufacturers, ..	2	3	..	3
French Polishers,	2	..	12	12
Funeral Undertakers,	2	2	1	3
Glaziers,	2	3	1	4
Hosiery Knitters,	2	..	7	7
Laundresses,	20	..	63	63
Milliners,	7	..	22	22
Painters,	5	19	3	22
Picture Frame Makers & Gilders,	1	1	..	1
Pickle Manufacturers,	1	22	235	257
Plumbers,	17	27	7	34
Photographers,	2	3	1	4
Potted-Head Makers,	1	2	4	6
Saddlers,	2	2	..	2
Saw Sharpers	1	1	..	1
Ships' Carpenters,	1	9	..	9
Shoemakers,	73	101	6	107
Tailors,	13	31	15	46
Tinsmiths,	3	11	..	11
Umbrella Makers,	1	1	1	2
Underclothing Makers,.. ..	2	..	5	5
Watchmakers and Jewellers,..	11	14	3	17
Weighing Machine Makers, ..	1	2	..	2
TOTALS,	270	569	511	1080

TABLE II.—WORKPLACES.

TRADE OR BUSINESS.	No. of Workplaces	No. OF WORKERS EMPLOYED.		TOTAL.
		Male.	Female.	
Boilerhouses,	1	3	..	3
Builders' Yards,	1	1	..	1
Beer Bottling Stores,	1	2	..	2
Electricians	1	1	..	1
Hairdressers,	46	92	..	92
Masons' Yards,	2	3	..	3
Plasterers' Yards,	4	9	1	10
Potato Merchant's Yard,	1	..	8	8
Rag and Metal Stores,	5	10	7	17
Restaurateurs,	60	26	104	130
Slaters' Yards,	4	4	..	4
Stable Yards,	8	39	1	40
Storekeepers,	16	42	1	43
TOTALS,	150	232	122	354

TABLE III.—DOMESTIC WORKSHOPS.

TRADE OR BUSINESS.	No. of Domestic Workshops.	No. OF WORKERS EMPLOYED.		TOTAL.
		Male.	Female.	
Dressmakers,	10	..	15	15
Milliners,	1	..	1	1
Tailors,	1	1	..	1
TOTALS,	12	1	16	17

TABLE IV.—OUTWORKERS.

TRADE OR BUSINESS.	No. of Outworkers.	SEX OF WORKERS EMPLOYED.		TOTAL.
		Male.	Female.	
Bootmakers,	4	4	..	4
Baby-linen Sewers,	1	..	1	1
Blouse Makers	1	..	1	1
Capmakers,	1	..	1	1
Doll Makers,	1	..	1	1
Fancy Belt Makers,	1	..	1	1
Fringers,	2	..	3	3
Handkerchief Makers,	2	..	2	2
Hosiery Knitters,	9	..	9	9
Milliners,	1	..	1	1
Umbrella Makers,	1	..	1	1
Underclothing Makers.	26	..	27	27
TOTALS,	50	4	48	52

TABLE V.—FACTORIES.

TRADE OR BUSINESS.	No. of Factories.
Aerated Water Manufacturers,	3
Bakers,	7
Bakers' Utensil Makers,	1
Block and Steering Wheel Makers,	1
Boat Builders,	3
Bolt and Rivet Makers,	1
Brass and Iron Founders,	6
Cabinetmakers,	2
Candle and Taper Makers,	2
Canvas Manufacturers,	1
Chemical Manufacturers,	2
Coffee Essence, &c., Manufacturers,	1
Copper Workers,	1
Crucible Manufacturers,	1
Crane Makers,	2
Electricity Works,	1
Engineers, Boiler Makers, and Shipbuilders,	26
Engine Packing Manufacturers,	1
Fire-Clay Manufacturers,	1
Fire-Lighter, &c., Manufacturers,	7
Fishing Rod Makers,	1
Flock Workers,	1
Flour Millers,	1
Galvanisers,	1
Grain Merchants,	2
Golf Ball Manufacturers,	1
Hair Workers,	1
Hammer Handle Makers,	1
Ink Manufacturers,	2
Laundries,	5
Lead Manufacturers,	2
Lifebuoy Manufacturers,	1
Machinery Merchants,	1
Nautical Implement Makers,	2
Paint Manufacturers,	1
Patent Machine Belt Makers,	1
Pattern and Model Makers,	1
Printers,	1
Paste and Gum Manufacturers,	1
Rope Manufacturers,	1
Rustic Wood Workers,	1
Sailmakers,	1
Sawmillers and Joiners,	9
Shirt Manufacturers,	1
Sheet Iron Workers,	2
Silk Finishers,	1
Ships' Smiths,	1
Shoemakers,	3
Steam-Pipe Coverers,	2
Trunk Manufacturers,	1
Tube Manufacturers,	2
Tinsmiths,	1
Ventilating Engineers,	1
Window Blind Makers,	1
Wire Weavers,	1
TOTAL,	126

TABLE VI.—ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1909, FOR THE BURGH OF GOVAN, ON THE ADMINISTRATION OF THE FACTORY AND WORKSHOP ACT, 1901, IN CONNECTION WITH FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOMEWORK.

I.—INSPECTION OF FACTORIES, WORKSHOPS, AND WORKPLACES, INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories, including Factory Laundries, ..	243	2	..
Workshops, including Workshop Laundries, and Retail Bakehouses, ..	401	11	..
Workplaces, other than Outworkers' premises included in Part 3 of Report,	200	4	..
TOTAL,	844	17	..

II.—DEFECTS FOUND IN FACTORIES, WORKSHOPS, AND WORKPLACES.

PARTICULARS,	Number of Defects.			Number of Prosecutions.
	Found.	Remedied	Referred to H.M.'s Inspector.	
<i>Nuisances under the Public Health Acts —*</i>				
Want of Cleanliness,	26	24	..	..
Want of Ventilation,	2	3	..	..
Overcrowding, .. ..	..	..	..	..
Want of Drainage of Floors, ..	2	2	..	..
Other Nuisances,	4	3	..	..
Sanitary Accommodation—				
{ Insufficient,	3	2	..	..
{ Unsuitable or Defective, ..	21	10	..	..
{ Not Separate for Sexes, ..	2	2	..	..
<i>Offences under the Factory and Workshop Act —</i>				
Illegal occupation of Underground Bakehouse (S. 101), .. ..	..	..	..	..
Breach of Special Sanitary Requirements for Bakehouses (S.S. 97 to 100), .. ..	..	..	..	..
Other Offences, excluding offences relating to Outwork which are included in Part 3 of this Report, ..	..	..	..	..
Total,	60	46	..	..

*Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act as remediable under the Public Health Acts.

III.—HOME WORK.

NATURE OF WORK.	OUTWORKERS' LISTS, SECTION 107.											OUTWORK IN UNWHOLESOME PREMISES, SECTION 108.			OUTWORK IN INFECTED PREMISES, SECTIONS, 109, 110.																
	Lists received from Employers.					Addresses of Out-workers			Prosecutions.																						
	Twice in the year.			Once in the year.		Received from other Councils.	Forwarded to other Councils.	Notices served on Occupiers as to keeping or sending lists.	Failing to keep or permit inspection of lists.	Failing to send lists of lists.	Inspections of Outworkers' premises.	Instances.	Notices Served.	Prosecutions.	Instances.	Orders made (S. 110).	Prosecutions (Sections 109, 110)														
	Lists.	Outworkers.		J lists.	(utworkers.													Work- men.													
		Con- tractors	W rk- men.		Con- tractors																										W rk- men.
Wearing Apparel—																															
(1) Making, &c., ..	6	..	33	..	..	66	8	..	..	..	103	..	..	..	..	..	..	..						
(2) Cleaning Washing, - and Fringing, ..	..	..	..	..	..	4	..	..	..	..	2	..	..	..	..	..	..	..						
Stuffed Toys, ..	..	..	..	..	..	2	..	..	..	..	1	..	..	..	..	..	..	..						
Umbrellas, ..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	
TOTALS, ..	6	..	33	..	..	73	8	..	..	..	106	..	..	..	..	..	..	..						

IV.—REGISTERED WORKSHOPS.

Workshops on the Register at the end of the Year.	Number.
Shoemakers,	73
Dressmakers,	32
Laundresses,	20
Cartwrights and Joiners,	20
Plumbers,	17
Tailors,	13
Watchmakers,	11
Bakers (Retail),	18
Others,	66
Total Number of Workshops on Register,	270

V.—OTHER MATTERS.

Class.	Number
Matters Notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshop Act (S. 133), .. .. .	..
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under Factory and Workshop Act (S. 5) :—	
{ Notified by H.M. Inspector,	1
{ Reports (of action taken) sent to H.M. Inspector, ..	1
Other,	1
Underground Bakchouses (S. 101) :—	
Certificates granted during the year, .. .. .	..
In use at end of year, .. .. .	..

BACTERIOLOGICAL REPORT, 1909.

During the year there were received for examination 515 specimens, as compared with 586 in the previous year.

Of the total, 313, being 60.8 per cent., were for the recognition of Tubercle Bacillus ; 103, being 20.0 per cent., for Diphtheria ; 31, being 6.0 per cent., for Enteric Fever ; and 68, being 13.2 per cent., for other diseases and investigations, as detailed in the Monthly Returns.

The results obtained are shown in the following table :—

Disease.	Results.		Total.	Percentage of Total Cases.
	Positive.	Negative.		
Phthisis,	89	224	313	60.8
Diphtheria, ..	16	87	103	20.0
Enteric Fever, ..	4	27	31	6.0
Other Diseases, &c.	49	19	68	13.2
Total,	158	357	515	100.0

PERCENTAGE OF RESULTS.

Disease.	Positive.	Negative.
Phthisis,	28.4	71.6
Diphtheria,	15.5	84.5
Enteric Fever,	13.0	87.0
Other Diseases, etc.,	72.1	27.9
TOTAL,	30.7	69.3

ANNUAL RETURNS, 1904-1909.

Year,	Phthisis		Diphtheria		Enteric Fever		Other Diseases etc.		Total
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	
1904	53	82	24	35	31	40	19	4	288
1905	71	106	47	51	16	39	30	7	367
1906	72	144	33	79	5	45	41	12	431
1907	125	200	33	64	3	41	31	17	514
1908	98	260	46	96	11	50	18	7	586
1909	89	224	16	87	4	27	49	19	515
Total ...	508	1016	199	412	70	242	188	66	2701

RESULTS OF EXAMINATIONS, 1904-1909.

Disease	RESULTS		TOTAL	Percentage of Total Cases
	Positive	Negative		
Phthisis	508	1016	1524	56·4
Diphtheria	199	412	611	22·7
Enteric Fever,... ..	70	242	312	11·5
Other Diseases, &c., ...	188	66	254	9·4
Total,	965	1736	2701	100·0

PERCENTAGE OF RESULTS, 1904-1909.

DISEASE	POSITIVE	NEGATIVE.
Phthisis	33·3	66·7
Diphtheria	32·6	67·4
Enteric Fever	22·4	77·6
Other Diseases, &c., ...	74·0	26·0
Total... ..	35·7	64·3

W. G. BARRAS, M.D., L.S.Sc., D.P.H.,
Bacteriologist.

